

**Description**

The B5817W-B5819W is schottky barrier diode, SOD-123 plastic package.

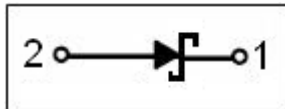
**Features**

- Low positive pressure drop
- Halogen-free product

**Applications**

- Schottky diode.

**Equivalent Circuit & Pinning**



PIN1:Cathode

PIN2:Anode

**Marking**

Model	B5817W	B5818W	B5819W
Marking	HSJ	HSK	HSL

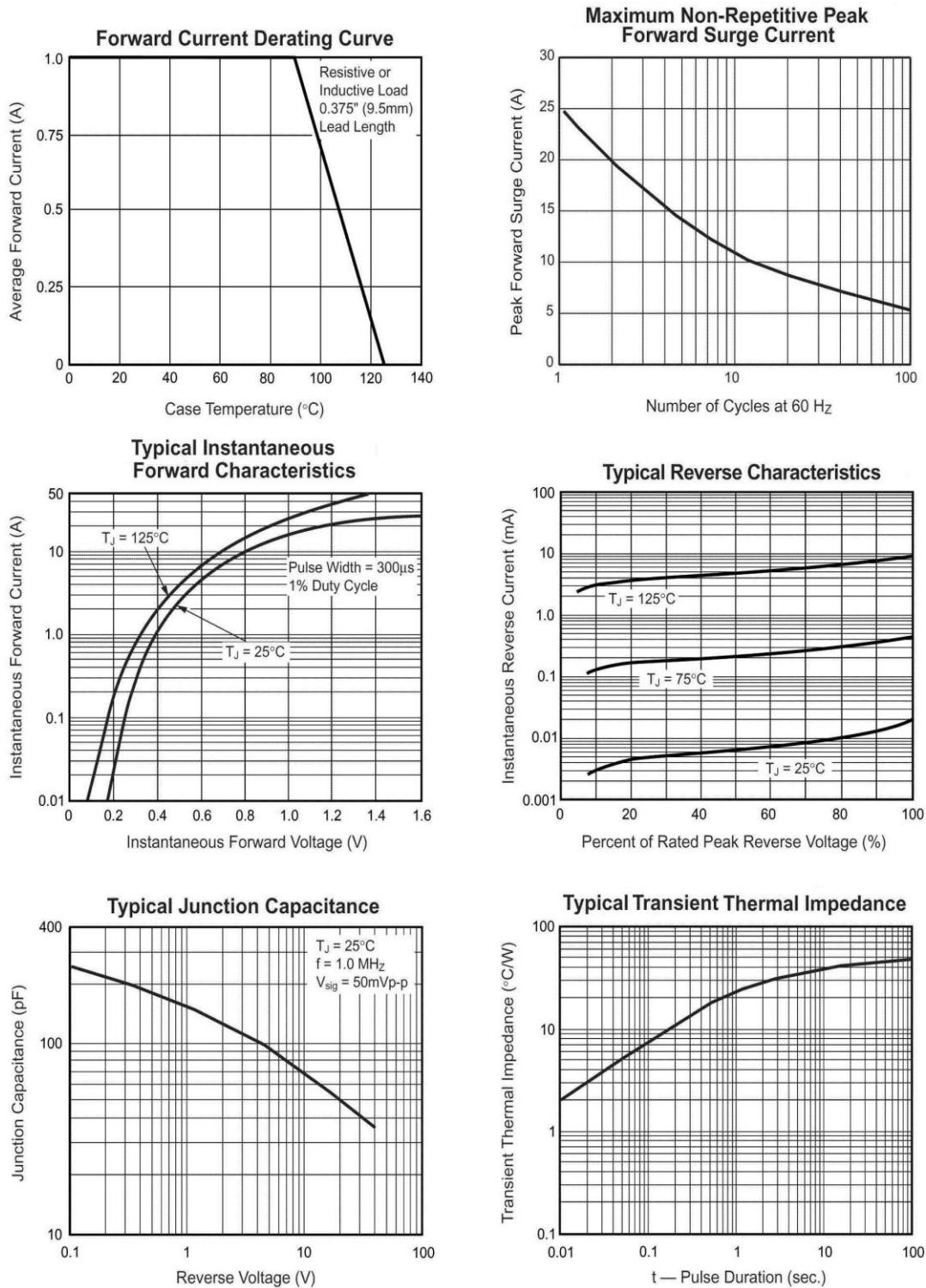
**Maximum Rating & Thermal Characteristics(Ta=25 °C)**

Parameter	Symbol	Rating			Unit
		B5817W	B5818W	B5819W	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Rectified Forward Current	$I_F$	1			A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	25			A
Power Dissipation	$P_D$	450			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	220			°C/W
Junction and Storage Temperature Range	$T_J, T_{stg}$	-65 to 125			°C

**Electrical Characteristics(Ta=25 °C)**

Parameter	Symbol	Test Conditions	Rating						Unit
			B5817W		B5818W		B5819W		
			MIN	MAX	MIN	MAX	MIN	MAX	
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$	20		30		40		V
Forward Voltage	$V_F$	$I_F=0.1A$		0.32		0.35		0.40	V
		$I_F=1A$		0.45		0.55		0.60	
		$I_F=3A$ ( $t<5\mu s$ )		0.75		0.875		0.90	
Instantaneous Reverse Current	$I_{RM}$	$V_R=V_{RRM}$	1						mA
Junction Capacitance	$C_J$	$V_R=4V$ $f=1.0MHZ$	120						pF

Electrical Characteristic Curve



Marking instructions



Note:

H: Company Code.

SJ: Product Type.

Package Outline Dimensions

